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ABSTRACT

A\method is provided to simplify the computation involved in global motion compensation and warping prediction in coding and decoding of motion compensated image signals. In the synthesis of a global motion compensated predicted image 1203 which predicts a current frame image from an immediately preceding frame image 1202 using motion vectors 1205 of plural representative points having a particular spatial interval in an image frame, a first interpolation/extrapolation 1207 is performed to calculate motion vectors of provisional representative points from motion vectors 1206 of representative points, and a second interpolation/extrapolation 1209 is then performed to calculate motion vectors 1210 for each pixel from motion vectors 1208 of the provisional representative points.

A division performed when the predicted image is synthesized can be replaced by a shift computation involving a smaller number of bits, so the processing carried out by a computer or special hardware can be simplified.